

SAC SERIES

V_{BR} : 5.0 - 50 Volts

P_{PK} : 500 Watts

FEATURES :

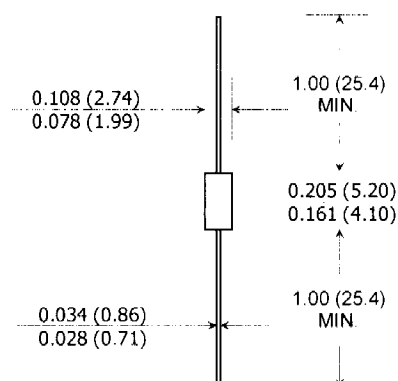
- * 500W Peak Pulse Surge reverse capability on 10/1000 μ s waveform
- * Excellent clamping capability
- * Low incremental surge resistance
- * Fast response time : typically less than 1.0 ns from 0 volts to BV
- * Pb / RoHS Free

MECHANICAL DATA

- * Case : DO-41 Molded plastic
- * Epoxy : UL94V-0 rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, I method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.34 gram

LOW CAPACITANCE TRANSIENT VOLTAGE SUPPRESSOR

DO - 41



Dimensions in inches and (millimeters)

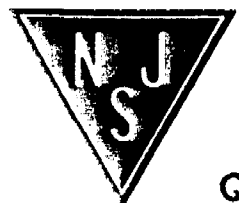
MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified.

Rating	Symbol	Value	Unit
Peak Pulse Power Dissipation on 10/1000 μ s waveform (Note 1, Figure 1)	PPPM	Minimum 500	W
Steady State Power Dissipation at T _L = 75 °C Lead Lengths 0.375", (9.5mm)	P _D	1.0	W
Operating and Storage Temperature Range	T _J , T _{STG}	- 65 to + 175	°C

Note :

(1) Non-repetitive Current pulse, per Fig. 3 and derated above T_a = 25 °C per Fig. 2



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Quality Semi-Conductors

ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified

Type	Breakdown Voltage @ I_t		Reverse Stand-off Voltage	Maximum Reverse Leakage @ V_{RWM}	Maximum Clamping Voltage @ $I_{RSM}=5A$	Maximum Reverse Current	Maximum Junction Capacitance @ 0 Volt	Working Inverse Blocking Voltage	Max. Inverse Blocking Current @ V_{WIB}	Peak Inverse Blocking Voltage
	V_{BR} (V)	I_t	V_{RWM}	I_R	V_{RSM}	I_{RSM}		V_{WIB}	I_{IB}	V_{PIB}
	Min.	(mA)	(V)	(μA)	(V)	(A)	pF	(V)	(mA)	(V)
SAC5.0	7.6	1.0	5.0	300	10.0	44	50	75	1.0	100
SAC6.0	7.9	1.0	6.0	300	11.2	41	50	75	1.0	100
SAC7.0	8.3	1.0	7.0	300	12.6	38	50	75	1.0	100
SAC8.0	8.9	1.0	8.0	100	13.4	36	50	75	1.0	100
SAC8.5	9.4	1.0	8.5	50	14.0	34	50	75	1.0	100
SAC10	11.1	1.0	10	5.0	16.3	29	50	75	1.0	100
SAC12	13.3	1.0	12	5.0	19.0	25	50	75	1.0	100
SAC15	16.7	1.0	15	5.0	23.6	20	50	75	1.0	100
SAC18	20.0	1.0	18	5.0	28.8	15	50	75	1.0	100
SAC22	24.4	1.0	22	5.0	35.4	14	50	75	1.0	100
SAC26	28.9	1.0	26	5.0	42.3	11.1	50	75	1.0	100
SAC30	33.3	1.0	30	5.0	48.6	10	50	75	1.0	100
SAC36	40.0	1.0	36	5.0	60.0	8.6	50	75	1.0	100
SAC45	50.0	1.0	45	5.0	77.0	6.8	50	150	1.0	200
SAC50	55.5	1.0	50	5.0	88.0	5.8	50	150	1.0	200

FIG.1 - PEAK PULSE POWER RATING CURVE

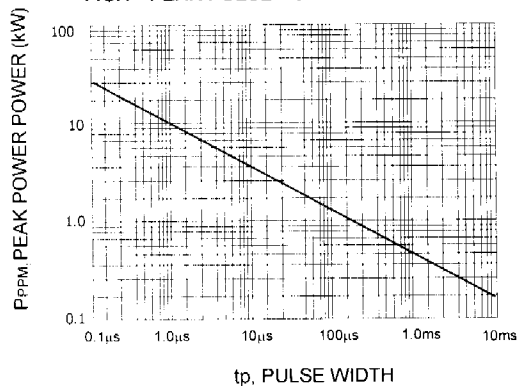


FIG.2 - PULSE DERATING CURVE

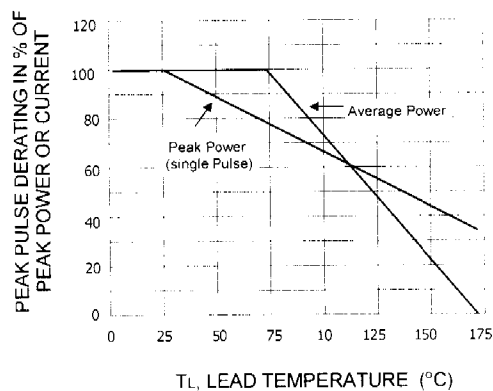


FIG.3 - PULSE WAVEFORM

